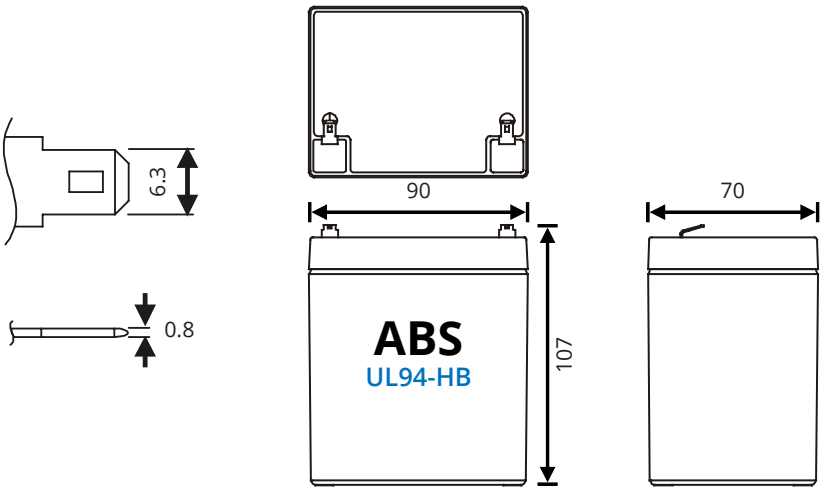
pbq®
professional battery quality

5.2-12 - General Purpose Series

VRLA Battery



Technical Specifications

Nominal voltage	12 V
Nominal capacity (1.70V/c, 25ºC)	20Hr: 5.30 Ah
	5Hr: 4.32 Ah
	1Hr: 2.97 Ah
Internal resistance	≤34mΩ (fully charged)
Maximum charge current	1.5 A
Maximum discharge current	75.0 A (max. 5 sec)
Float use / cyclic use	13.5 - 13.8V / 14.4 - 15.0V
Charge temperature range	-15ºC ~ 40ºC
Discharge temperature range	-15ºC ~ 50ºC
Design life (20°C)	3-5 years (Eurobat)

Standard terminal	Faston 6.3mm (T2)
Housing material	ABS (UL94-HB)
Dimensions Length	90 mm
Dimensions Width	70 mm
Dimensions Height	107 mm
Approximate Weight	1.62 kg
Packing	20 pcs / box

Typical applications

- Security systems
- Measuring equipment
- Emergency lighting
- Medical applications
- UPS systems
- Control panels

Features

- Absorbent Glassmat Technology (AGM)
- Valve Regulated Lead Acid (VRLA)
- Maintenance free
- UL94-HB Flame retardant casing
- UL registered
- Low self discharge
- Classified as non-spillable and Non Dangerous goods by IATA, FAA, ADR, IMDG
- Can be discharged or stored in any position without leakage
- Cannot be charged while terminals are downwards

Constant Current Discharge (Amps) at 25°C (77°F)

F.V/TIME	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	5 Hr	10 Hr	20 Hr
1.80V/cell	17.0	11.3	7.83	4.82	2.78	1.54	0.84	0.48	0.25
1.75V/cell	18.3	11.6	8.31	4.97	2.89	1.62	0.85	0.50	0.26
1.70V/cell	18.8	11.8	8.53	5.11	2.97	1.65	0.86	0.50	0.27
1.65V/cell	19.2	12.0	8.65	5.21	3.02	1.67	0.87	0.51	0.27
1.60V/cell	19.4	12.1	8.74	5.26	3.05	1.69	0.88	0.52	0.28

Constant Power Discharge (Watts) per Cell* at 25°C (77°F)

F.V/TIME	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	5 Hr	10 Hr	20 Hr
1.80V/cell	25.7	18.7	14.8	8.73	4.95	2.97	1.64	1.01	0.52
1.75V/cell	27.8	20.0	15.4	9.08	5.32	3.10	1.68	1.03	0.54
1.70V/cell	29.8	21.0	15.8	9.43	5.62	3.20	1.72	1.05	0.55
1.65V/cell	31.7	21.8	16.1	9.65	5.78	3.32	1.75	1.09	0.56
1.60V/cell	32.8	22.3	16.3	9.77	5.87	3.38	1.78	1.10	0.57

*: Battery consists of 6 cells

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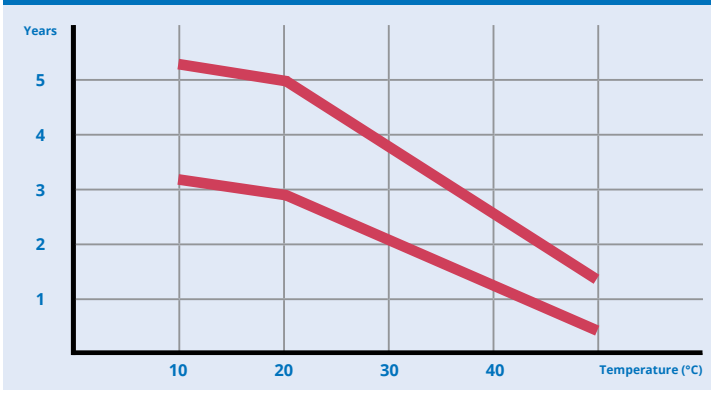
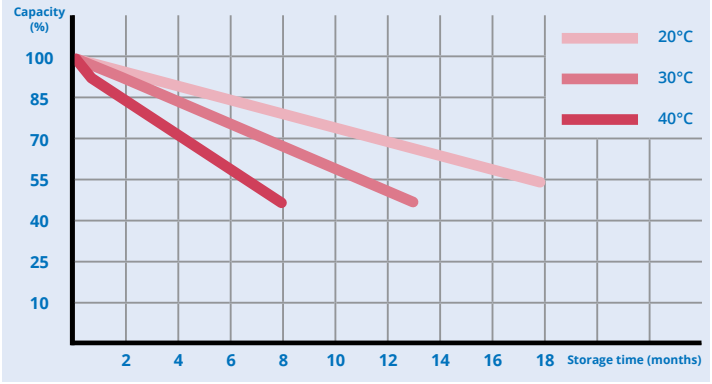
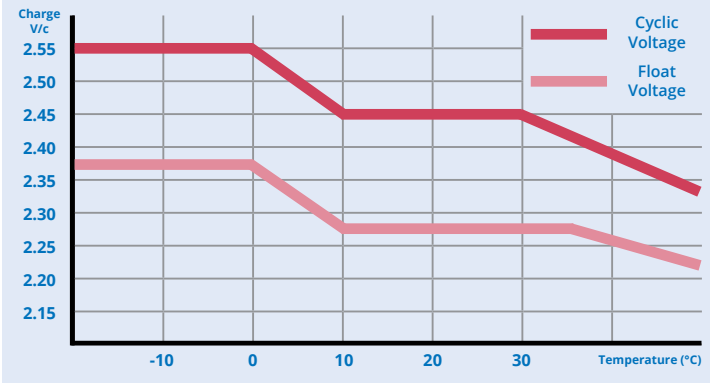
Service life vs Temperature



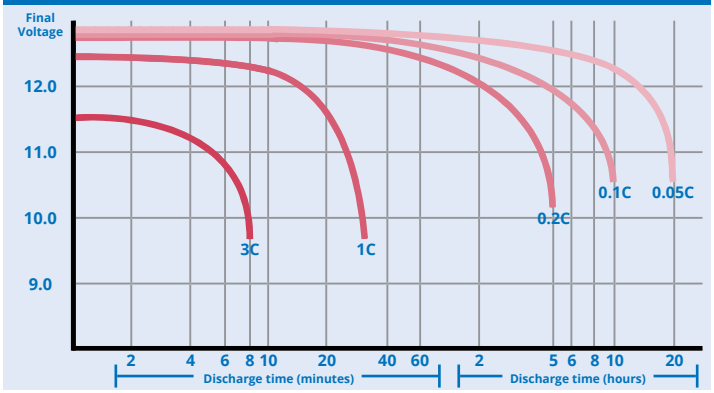
Self-discharge characteristics



Charge Voltage vs Temperature



Discharge characteristics



Certifications and Standards

ISO 9001 ISO 14001 ABS UL94-HB

RoHS 2002/95/EC

General purpose series

With a range of well over 50 models, pbq offers one of the widest selections in the battery industry. The batteries are designed with the cost and quality conscious user in mind offering an excellent price/performance ratio. pbq has a full series of 6 and 12 Volt models available for a wide range of applications and intents to keep this range in production for many years to come. These General Purpose batteries have been designed for a functional life of 4-5 years at an operating temperature of 25°C in a standby application.

VdS approved VRLA batteries

The VdS-approved pbq batteries form a special range that has been tested and qualified by the German VdS institute. The concept behind VdS recognition; ensuring tested and certified quality in the products and services being offered in the safety and security markets, is of equally advantageous for user and supplier. All VdS models are accomplished in Flame Retardants ABS casing. Due to the right choice of the flame retardant, the batteries remain RoHS Compliant.

The following batteries from the pbq General Purpose series have been VdS approved: pbq 1.2-12, pbq 2.3-12. pbq 3.2-12, pbq 7-12, pbq 7-12L, pbq 12-12, pbq 18-12, pbq 26-12, pbq 40-12 & pbq 65-12.

Available models

Scan the QR-code below for an overview of the available models in the pbq General Purpose series.